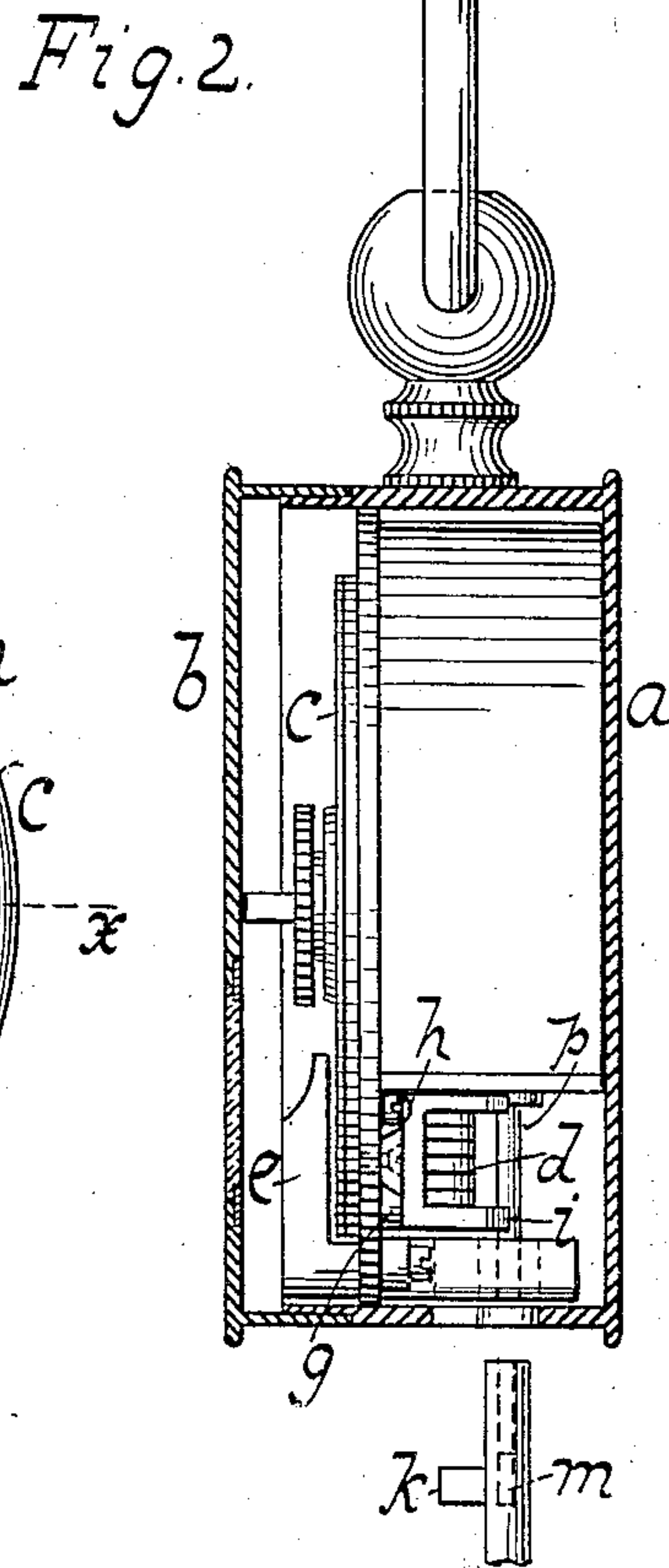
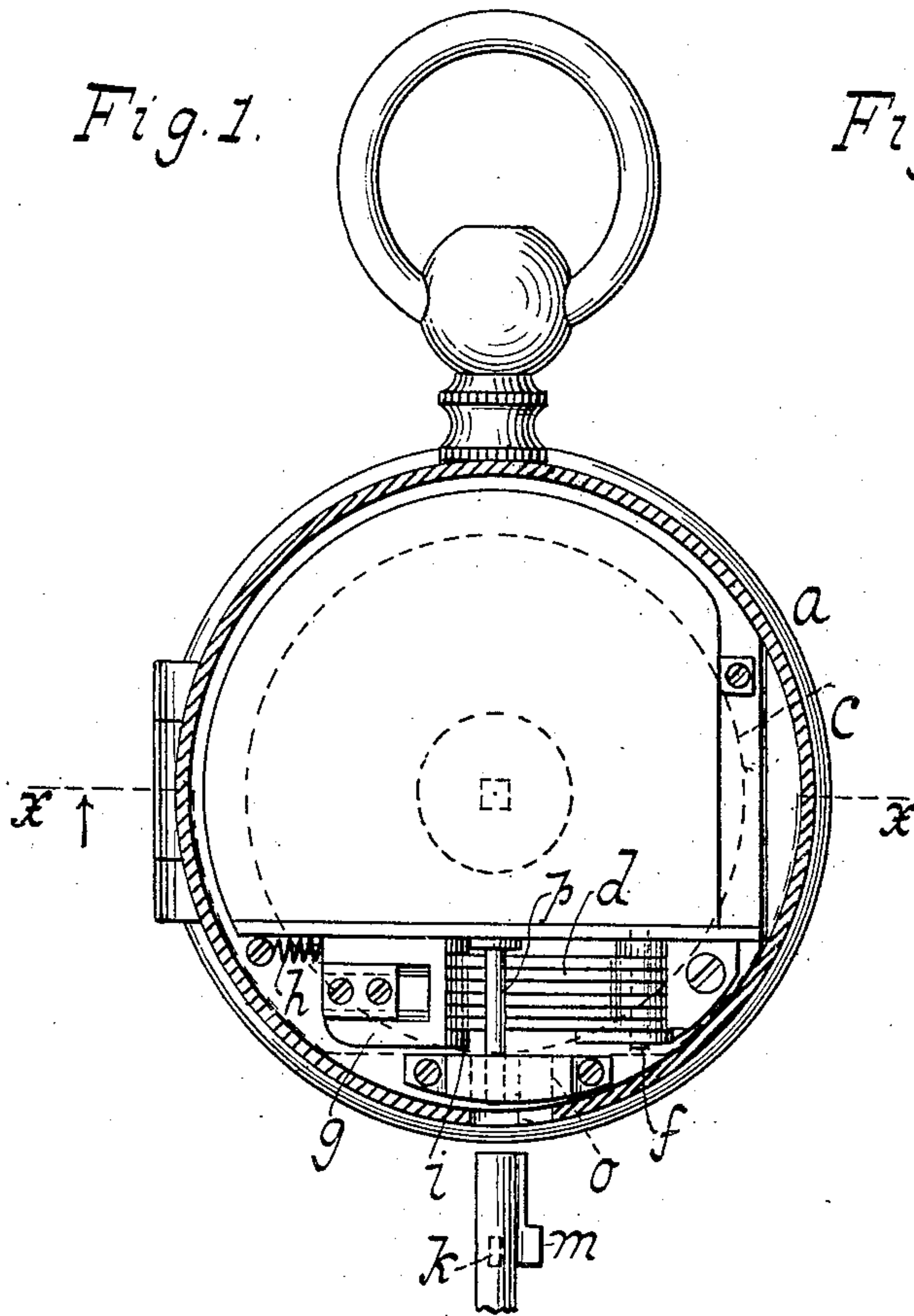


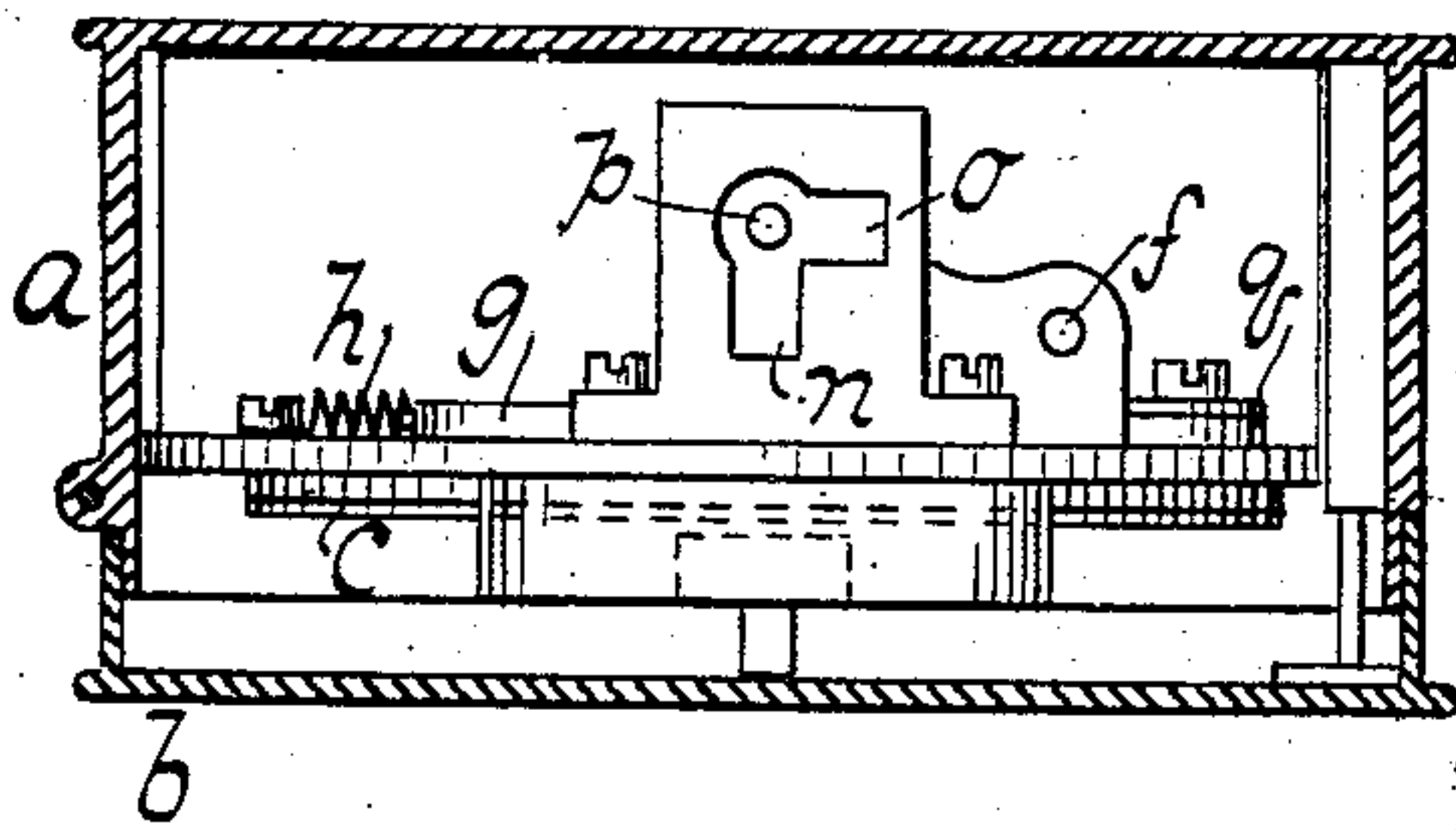
No. 840,410.

PATENTED JAN. 1, 1907.

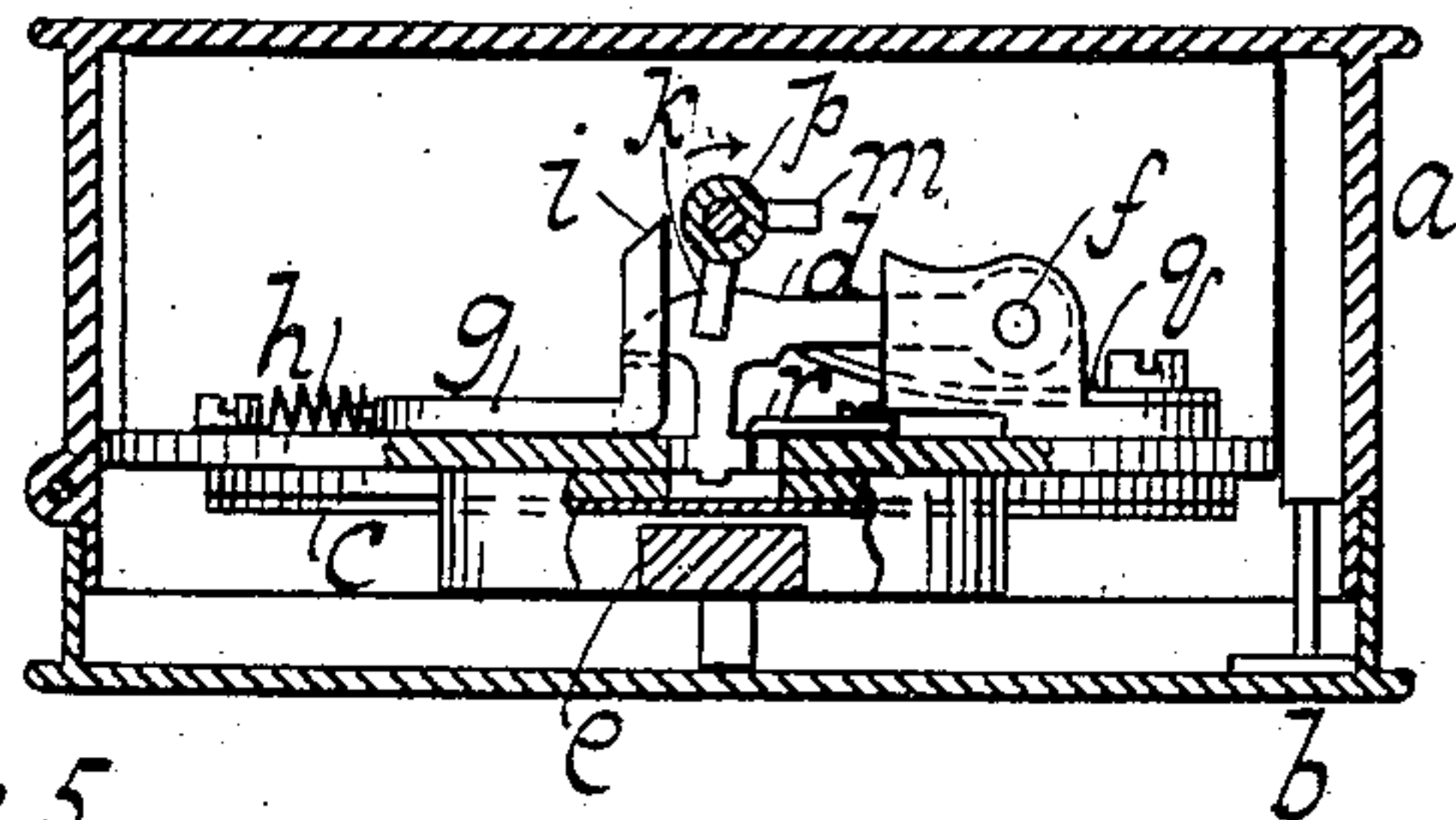
J. ZAUSMER.  
WATCHMAN'S TIME DETECTOR.  
APPLICATION FILED OCT. 24, 1905.



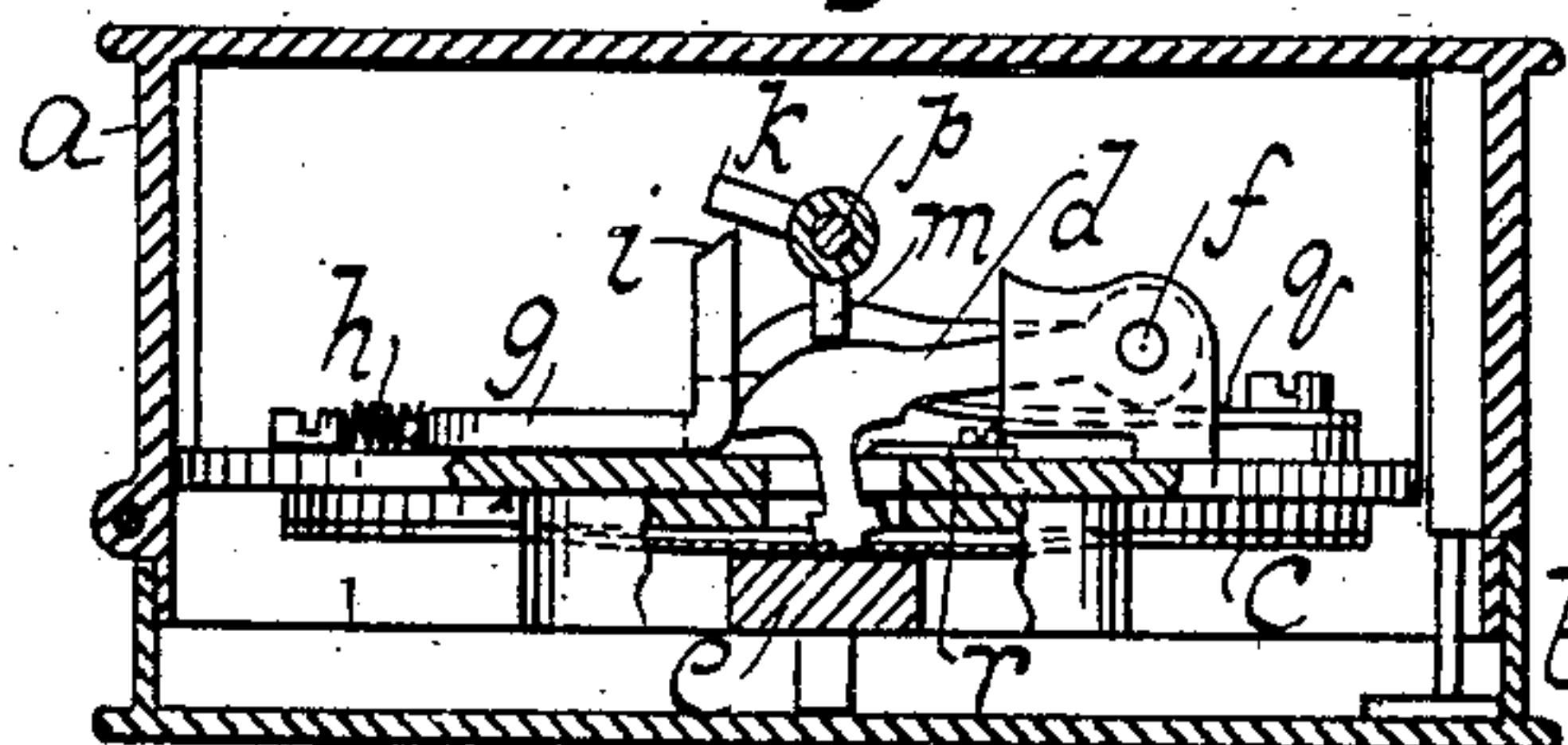
*Fig. 3.*



*Fig. 4.*



*Fig. 5.*



WITNESSES:

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BY

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ATTORNEY



# UNITED STATES PATENT OFFICE.

JOSEPH ZAUSMER, OF NEWARK, NEW JERSEY, ASSIGNOR TO AUGUST F. NANZ, OF BROOKLYN, NEW YORK.

## WATCHMAN'S TIME-DETECTOR.

No. 840,410.

Specification of Letters Patent.

Patented Jan. 1, 1907.

Application filed October 24, 1905. Serial No. 284,200.

*To all whom it may concern:*

Be it known that I, JOSEPH ZAUSMER, a citizen of Norway, residing at Newark, in the county of Essex and State of New Jersey, have invented new and useful Improvements in Watchmen's Time-Detectors, of which the following is a specification.

This invention relates to certain details by which tampering can be prevented or proper actuation of the mechanism assured.

This invention is set forth in the following specification and claims and illustrated in the annexed drawings, in which—

Figure 1 is a plan view of part of a time-detector embodying this invention. Fig. 2 is an edge view of Fig. 1. Fig. 3 is a view looking at the keyhole. Fig. 4 is a section along  $x x$ , Fig. 1. Fig. 5 is a view like Fig. 4, the key having been turned a certain distance.

In the drawings is shown a case or housing  $a$  with hinged cover  $b$  and adapted to contain the movement and rotating dial  $c$  or disk of paper to be marked by the action of a type or marker or series of markers  $d$  and a die or matrix-plate  $e$ . These parts are known and need no detailed description.

The markers are in form of levers, fulcrumed at  $f$  and adapted to press the dial or sheet  $c$  against plate  $e$  when suitably actuated. A detent or slide  $g$  has one edge made to pass into the path of the markers, and until this slide is moved to releasing position the markers are locked or prevented from making a rotation. This slide is held to engaging position by spring  $h$  and is moved to clearing position by a shoulder or lip  $i$  on the slide being engaged and pushed back by a barb  $k$  of the key which comprises barbs  $k$  and  $m$ , for a purpose presently more fully explained. The keyhole has branches  $n o$  for the entry of the barbs  $k m$  as the key is slid onto the axle or fixed stem  $p$ .

When a key is inserted and rotated as indicated by the arrow, Fig. 4, the barb  $k$  moves the detent to release the levers or markers, and as the barb  $m$  comes into action, Fig. 5,

the marker or several markers at once act on the dial. Tampering or improper depression of the tumblers or markers  $d$  is thus prevented. When the key has reached the position shown in Fig. 5, the shoulder or lip  $i$  has engaged a barb of the key to prevent retrograde or backward turning of the key. It may also be noted that the key or each key of the set must be inserted its full extent into the device, so as to bring the required barb  $k$  into action to release the detent-slide  $g$ . Tampering is thus prevented, as a key cannot be inserted varying distances to actuate one or another of the markers or make a false notation.

The slide or detent can be applied at any suitable point and can be readily made, as shown, of a piece of metal suitably guided toward and from the markers. The latter are normally held up or out of action by springs  $q$ , and stops  $r$  limit the upward or return movement of the markers.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A detector or the like having a keyhole formed with angularly-placed branches, a marker or type and a detent for the marker, said detent having a key-engaging portion or shoulder to prevent return or backward rotation of the key.

2. A key for a time-detector or the like comprising a barb for actuating a marker and also a detent-engaging barb, and a detector having a keyhole with branches for the respective barbs, a detent having a shoulder extended along one of the branches to be engaged by one of the barbs and a marker extended along the other branch to be engaged by the other barb.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

JOSEPH ZAUSMER.

Witnesses:

EDWARD WIESNER,  
GEORGE HULSBURG.